

BELOZOVICH, Ivan Mikhaylovich, kand. tekhn. nauk; EPSHTEYN, Samuil  
Aronovich, inzh.; KOPELYANSKIY, G.D., kand.tekhn.nauk, retsenzent; PERAKOVA,  
Ye.P., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.;  
SABITOV, A., tekhn. red.

[Materials and products for the construction of mines] Materialy  
i izdeliya dlja stroitel'stva gornykh predpriatii; spravochnoe  
posobie. Moskva, Gosgortekhizdat, 1962. 259 p. (MIRA 16:2)  
(Building materials) (Mine buildings)

BELOZOVICH, Ivan Mikhaylovich, kand. tekhn.nauk; EPSHTEYN, Samuil Aronovich, inzh.; KOPELYANSKIY, G.D., kand.tekhn.nauk, retsenzent; PETRAKOVA, Ye.P., red.izd-va; PROZOROVSKAYA, V.L., tekhn. red.; SABITOV, A., tekhn. red.

[Materials and products for constructing mining enterprises; a handbook] Materialy i izdeliya dlia stroitel'stva gornykh predpriatii; spravochnoe posobie. Moskva, Gosgortekhizdat, 1962. 259 p. (MIRA 16:5)  
(Mining engineering--Equipment and supplies)

ANASTASIADI, A.P.; BOROVSKIY, V.R.; VYBORNAY, G.V.; KOPELYANSKIY,  
G.D.; MAK, I.L.; PECHURO, S.S.; PIYEVSKIY, I.M.;  
RACHEVSKAYA, K.D.; REYZNER, Yu.B.; RYBAK, L.L.; TSEPELIOVICH,  
M.R.; SHUMAKHER, L.I.; YUSHKEVICH, M.O.[deceased]; AGEYENKO,  
Yu.G., nauchnyy red.; BELUGIN, A.T., nauchnyy red.; KOGAN,  
G.S., nauchnyy red.; KRZHEMINSKIY, S.A., nauchnyy red.;  
MITSKEVICH, M.I., nauchnyy red.; SILENOK, S.G., nauchnyy red.;  
TRILESNIK, Z.Ye., nauchnyy red.; ZUBAREV, K.A., glav. red.;  
TROFIMOV, I.P., red.; SKRAMTAYEV, B.G., glav. red.; BALAT'YEV,  
P.K., red.; KITAYEV, Ye.N., red.; KITAYGORODSKIY, I.I., red.;  
ROKHVARGER, Ye.L., red.; KHOLIN, I.I., red.; CHERKINSKAYA,  
R.L., red.; RODIONOVA, V.M., tekhn. red.

[Manual on the production of gypsum and gypsum products] Spra-  
vochnik po proizvodstvu gipsa i gipsovykh izdelii. [By] A.P.  
Anastasiadi i dr. Pod red. K.A.Zubareva. Moskva, Gosstroj-  
izdat, 1963. 464 p.  
(Gypsum) (Gypsum products)

MAKAROV, A.Ya.; KOPELIANSKIY, G.D., kand.tekhn. nauk, retsenzent;  
GORNYKH, V.P., inzh., red.; MATYASH, B.P., inzh., red.;  
YAKSHAROV, Yu.S., inzh., red.; MIKHAYEV, N.I., red.

[Reference manual on building materials] Spravochnik po s  
stroitel'nym materialam. Kuibyshev, Kuibyshevskoe knizh  
izd-vo, 1963. 647 p. (MIRA 17:7)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8

ZHITNYY, P.; DUDAREV, V.; OGARKOV, V.; KOPELYANSKIY, V.; NOVIKOV, K.

Exchange of experience. Avt.transp. 42 no.3:55-56 Mr '64.  
(MIRA 17:4)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8"

KOPENDOKH, S., starshiy inzh. podrazdeleniya reaktivnykh samoletov

Potentialities and realities. Grazhd.av. 18 no.4:14-15 '61.  
(MIRA 14'4)  
(Siberia, Eastern--Aeronautics, Commercial)

KOPENIN, K.N.

Our experience in the maintenance of continuous track. Put' i put.  
khoz. no.8:25 Ag '61. (MIRA 14:10)

1. Nachal'nik Gatchinskoy distantsii puti Oktyabr'skoy dorogi.  
(Railroads--Track)

KOPENKIN, V.D., inzh.

Correlation of some physicochemical properties of peat with indices  
of its particle size distribution. Izv. vys. ucheb. zav.; gor. zhur.  
6 no.7:40-45 '63.  
(MIRA 16:9)

l. Kalininskiy terfyanoy institut. Rekomenedovana kafedroy osnov tekhnologii  
promyshlennosti i sel'skokhozyaystvennogo terfedobvaniya Kali-  
ninskogo terfyanym institutom.  
(Peat) (Particle size determination)

KOVENKIN, V.D.

New data on the dispersity of peat. Koll. zhur. 26 no.4:  
465-469 Jl-Ag 164.  
(MERA 17:9)

1. Kalininskiy torfyanoy institut.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8

KOPENKIN, V.D.

Certain regularities in the dispersion composition of processed peat. Trudy Kal. torf. inst. no.13:162-170 '63.

(MIRA 17:12)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8"

KOPENYAK, V.M.

Hydraulic vises for power hack saws. Mashinostoritel'  
no. 5:23 My '64. (MIRA 17:7)

KO PER, J.

KOPER, J.

Differential linear equations in Banach spaces.

P. 3 (Matematyka, Chemie) Vol. 10, no. 1, 1957, Poznan, Poland.

so; monthly index of east european accessions (seai) LC. - vol. 7, no. 1, Jan. 1958

KOPER, S.

Some problems connected with the fertility of soils. Postepy nauk roln  
7 no.4:83-88 Jl-Ag '60. (EEAI 10:2)  
(Soils)

WAZNY, Mieczyslaw; KOPER, Stanislaw; KLAMUT, Marian

The cineradiographic method of studying the time of pulmonary circulation. Acta physiol. Pol. 16 no.2:321-327 Mr-Ap'65.

1. Zaklad Radiologii Akademii Medycznej w Lublinie (Kierownik: prof. dr. K. Skorzynski); Katedra Chirurgii Wydziału Weterynaryjnego Wyższej Szkoły Rolniczej w Lublinie (Kierownik: doc. dr. M. Lewandowski).

KOPER, Stanislaw; KARGOL, Zofia

Fertilizing problems in the Warsaw Voivodeship. Postepy nauk  
roln 10 no. 2: 85-96 Mr-Ap '63.

1. Stacja Chemiczno-Rolnicza, Warszawa.

KOPER, Stanislaw; WOŁOSZ, Barbara

Numerical formulation of the interdependence of soil reaction and the easily dissolving  $P_2O_5$  content in soil. Postępy nauk roln. 11 no. 1: 113-116 Ja-F '64.

1. Agrochemical Station, Warsaw.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8

KOPER, Tadeusz

New types of feeding equipment. Przegl techn 85 no. 32\*3  
9 Ag '64.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8"

KOPERA, K.; WALERIANGZYK, E.; JARZECKI, A.

Preliminary defecation at the Witaszyce Sugar Plant. p. 175

GAZETA CUKROWNICZA (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników  
Przemysłu Rolnego i Spożywczego i Centralny Zarząd Przemysłu Cukrowniczego)  
Warszawa, Poland. Vol. 61, no. 6, June 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959  
Uncl.

*K. SOKOLOWSKI, Z. KOPERA, M.D.*  
SOKOLOWSKI, Adam; KOPERA, Zygmunt

Case of Otto-Chrombac protrusio primaria acetabuli in adolescent.  
Postępy reumat. no.3:140-145 1957.

1. Z Instytutu Reumatologicznego. Dyrektor: prof. dr E. Reichar.  
Oddział Kraków, Dyrektor: prof. dr A. Sabatowski. Kierownik działu  
klinicznego: doc. dr A. Sokolowski.

(PELVIS, abnorm.

Otto-Chrombac pelvis in adolescent (Pol)

(ABNORMALITIES

...unno)

Kopera

EXCERPTA MEDICA Sec 15 Vol. 11/2 1958 p. 1  
420. CIRCULATION SYSTEM IN A FUNNEL CHEST. Układ krążenia w lejko-  
watej klatce piersiowej. Kopera Z. and Król W. 1 Klin. Chor. Wewn.  
A. M., Kraków. POL. TYG. LEK. 1957, 12/18 (678-683) Graphs 4 Tables  
4 Illus. 4

Sixty-three cases with a funnel chest examined radiologically are presented. In 36 the results of circulatory investigations and lung function tests were compared with the results of subjective and physical examination. The indices for 3 degrees of deformation were established as well as the radiograms characteristic for them, and a parallelism between the extensiveness of deformation and the clinical symptoms of circulatory insufficiency was pointed out. Attention has been called to the significance of surgical treatment of the funnel chest. It was stated that funnel chest is often accompanied by general impairment of the physical development and of the psychological efficiency. (XVIII, 15)

KOPERA, Zygmunt; SEDZIWy, Ludwik

Application of penicillin in the treatment of peptic ulcer of the stomach. Polski tygod. lek. 13 no.1:8-12 6 Jan 58.

1. (Z I Kliniki Chorob Wewnętrznych A. M. w Krakowie; kierownik:  
prof. dr med. Leon Tochowicz). Adres: Kraków, ul. Kopernika 17. I  
Klinika Chorob Wewnętrznych A. M.  
(PEPTIC ULCER, ther.)

penicillin, value in differentiation from cancer (Pol)  
(PENICILLIN, ther. use)

peptic ulcer, value in differentiation from cancer (Pol)  
(STOMACH NEOPIASMS, differ. diag.)

peptic ulcer, response to penicillin ther. (Pol)

EXCERPTA MEDICA Sec 16 Vol 7/9    Cancer    Sept 59

\*3883a. Conformation of the radiological findings by the anatomopathological data in gastric cancer Konfrontacja obrazu radiologicznego z obrazem anatopatologicznym w raku żołądka. KOPERA Z., SOCHA W., SZYMANOWICZ B. and LEŃCZYK M. Inst. Onkol. Oddz., Kraków *Nowotwory* 1959, 9/1 (35-42) Tables 3  
Illus. 10

Out of 245 patients with the radiological diagnosis of gastric cancer and operated upon, 126 were submitted to gastrectomy. The surgical specimens were studied grossly and histologically, and the data were compared with the preoperative radiological findings. The main conclusion is that lesions in the pyloric part of the stomach are the most difficult ones for radiological differential diagnosis between cancer and peptic ulcer. The authors propose an anatomo-radiological division of the stomach in 5 parts, which are almost of the same size but different in behaviour. This scheme would correspond better with the radiological findings than has been assumed up to now. (XVI, 9, 14)

KOPERA, Zygmunt; LENCYK, Maria; SZYMANOWICZ, Barbara; SOCHA, Wladyslaw

Value of radiological examination in the evaluation of completeness  
of total excision of gastric cancer. Polski przegl. chir. '61 no.3:  
257-264 Mar 59.

1. Z Instytutu Onkologii w Krakowie Dyrektor: doc. dr H. Kolodziejska.  
Adres autorow: Krakow, ul. Garncarska 11.

(GASTRECTOMY, in var. dis.  
cancer, x-ray evaluation of complete excis. of neoplastic  
foci (Pol))

KOPERA, Zygmunt; BAHNIK-SCHRAMM, Alicja

Dislocation of the atlas during the course of rheumatoid arthritis.  
Polski tygod.lek.15 no.9:315-319 29 F '60.

l. Z Instytutu Reumatologicznego; dyrektor: prof.dr.nauk med. E. Reich-  
ter, Oddział w Krakowie; dyrektor: prof.dr.nauk med. A. Sabatowski;  
Kierownik Działu klinicznego: prof.dr.med. A. Sokolowski.  
(ARTERITIS RHEUMATOID comp.)  
(ATLAS AND AXIS fract.& disloc.)

OSZACKI, Jan; KOPERA, Zygmunt; KROL, Wladyslaw

Status of the circulatory system before and after a surgical intervention for funnel chest. Polski przegl. chir. 35 no.1: 7-13 '63.

1. Z I Kliniki Chorob Wewnętrznych AM w Krakowie Kierownik:  
prof. dr L. Tochowicz i z II Kliniki Chirurgicznej AM w Krakowie

Kierownik: prof. dr J. Oszacki.

(FUNNEL CHEST) (SURGERY, OPERATIVE)  
(ELECTROCARDIOGRAPHY) (BLOOD PRESSURE)  
(BALLISTOCARDIOGRAPHY) (RESPIRATION)  
(BLOOD CIRCULATION)

KUJAWSKA, Janina; SKWIMCZIK, Wieslawa; SKOLYSZEWSKI, Jan; KOPERA, Zygmunt

A technic for rotation roentgenotherapy of esophageal cancer  
in the Krakow Institute of Oncology. Nowotwary 14 no. 3:299-303  
Ag-S '64

1. z Instytutu Onkologii w Krakowie (Dyrektor prof. dr. med.  
H. Kolodziejska).

KOPERA, Zygmunt

Radiological localization of tumors. Nowotwory 14 no. 48/45-348  
G.D '64

1. Z Instytutu Onkologii w Krakowie (Dyrektor prof. dr. med.  
H. Kolodziejska).

KOPERA, Zygmunt; LENCZYK, Maria

Value of radiological control after partial gastrectomy due to  
cancer. Pol. tyg. lek. 20 no.22:804-805 31 My '65.

1. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr. med.  
Hanna Kolodziejska).

KOPERA, Zygmunt; GDZIECKI, Aleksander

Radiological appearances following radiation treatment of  
giant-cell tumors. Nowotwory 15 no.2:181-185 Ap-Je '65.

l. Z Instytutu Onkologii w Krakowie (Dyrektor: prof. dr. med.  
H. Kolodziejska).

KOPERBAKH, B.L.

Gear-cutting machines. Biul.tekh.-ekon.inform. no.10:79-83 '60.  
(MIRA 13:10)

(Gear-cutting machines)

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKII, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchika-mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p. (MIRA 14:8)

(Industrial management) (Machine tools)

KOPERBAKH, B.L.; ROZENBAUM, B.S.; red.; CHIGAREVA, E.I., red.; BONDAREV,  
M.S., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Development of gear-cutting machines abroad; survey] Razvitiye kon-  
struktsii zuboobrabatyvayushchikh stankov za rubezhom; obzor. Mo-  
skva, 1961. 137 p. (Gear cutting machines)

AYZENSHADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.;  
KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk;  
MIRPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.;  
CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN,  
B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.;  
MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn.  
nauk; FURMAN, D.B.; LIVSHTS, A.L., kand.tekhn.nauk; MECHETNER,  
B.Kh.; SOSENKO, A.B.; AVDULOV, A.N.; LEVIN, A.A., kand.tekhn.  
nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A.,  
kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn.  
nauk; NAYDIS, V.A., kand.tekhn.nauk; VLADZIYEVSKIY, A.P., prof.,  
doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.;  
CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L.,  
tekhn. red.

[Machine-tool industry in capitalist countries] Stanko-  
stroenie v kapitalisticheskikh stranakh. Pod red. i s pre-  
disl. A.P.Vladziyevskogo. Moskva, 1962. 822 p. (MIRA 15:7)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy in-  
formatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-  
issledovatel'skiy institut metallorezhushchikh stankov  
(for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov,  
Kogan).

(Machine-tool industry)

KOVERBAKH, B.L.

Precision gear-cutting machines abroad. Biul.tekh.-ekon.  
inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.9:92-96  
:62. (MIRA 15:9)

(Gear-cutting machines)

KOPERBAKH, B.L.

Machines for cutting toothed racks. Biul.tekh.-ekon.inform.Gos.  
nauch.-issl.inst.nauch.i tekhn.inform. 16 no.5:79-83'63.  
(MIRA 16:7)

(Machine tools)

KOPERBAKH, B.L.

Cutting gear wheels with hobbing cutters. Stan. i instr. 34  
no.ll:39-40 N '63. (MIRA 16:12)

HOSTOMSKA, L., dr.; KOPERCKY, A., dr.; KOTTOVA, V., dr.

Determination of changes in serum cholesterol and alkaline phosphatase levels in the diagnosis and during treatment of hypothyroidism in children. Cesk.pediat. 11 no.2-3:123-127 Mar 56.

1. Z II. detske kliniky fakulty detskeho lekarstvi v Praze,  
prednosta prof. Dr. J. Housek. Z detskeho oddeleni KUMZ v  
Praze, prim. Dr. D. Srbova.

(HYPOTHYROIDISM, in inf. and child  
cholesterol & alkaline phosphatase level in blood)

(CHOLESTEROL, in blood  
determ. in hypothyroidism in child)

(BLOOD  
cholesterol & alkaline phosphatase determ. in hypothyroidism  
in child.)

(PHOSPHATASES  
alkaline, determ. in blood in hypothyroidism in child)

GRUBEROVA, J.; KOPERDANOVA, E.; PLESKOVA, A.

Toxicological properties of some mixtures of dithiophosphoric acid esters. Prac. lek. 13 no.8/9:410-414 N '61.

1. Ustav hygieny prace a chorob z povolania v Bratislave, riaditeľ  
MUDr. I. Klucik.

(INSECTICIDES toxicol)

KOPERIN, F.I.

R.A.M.

Кордук (F.I.). О влиянии влажности древесины на ее поражаемость грибами.  
[The influence of wood humidity on its destruction by fungi.]—*Сыр. Рес. Поп. Фар. Тех. Инд. Архангельск*, vili, pp. 37-48, 1 fig., 1946.

Evidence obtained in tests for the control of *Peniophora gigantea* [R.A.M., xxvi, p. 572] and *Ceratostomella pinii* (*ibid.*, xiv, p. 68), which seriously affect stored timber in U.S.S.R., showed that the fungi do not develop at 21 per cent. wood humidity or less. *P. gigantea* grows well on pine [unspecified] at 90 to 200 per cent. wood humidity, on spruce from 90 to 190, the optimum being approximately 120 per cent. Almost complete absence of air in the wood does not prevent development of the fungi.

*C. pinii* showed abundant growth both on pine and spruce at 30 to 70 per cent. wood humidity, but only slight development at 210 on pine and 160 on spruce, when only the peripheral wood layers were affected.

KOPERIN, F. I.

20776. Koperin, F. I. Khraneniye i sushka baiansov i rudnichnoy stoyki na skladakh lesozagotovitel'nykh predpriyatiy. Sborvik nauch. -issled. rabot (Arkhang. lesotekhn. in-T im. kuybysheva), XII, 1949, s. 53-73. Bibliogr. 7 nazv.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

Card : 1/1

K-40

KOPERIN, Fedor Ivanovich, prof.; FILIMONOVA, D.S., red.;  
BUYNOVSKAYA, N.B., tekhn. red.

[Fireproofing of wood and wood materials] Ognezashchita  
drevesiny i drevesnykh materialov. Arkhangel'sk,  
Arkhangel'skoe knizhnoe izd-vo, 1963. 117 p. (MIRA 17:1)

1. Arkhangel'skiy lesotekhnicheskiy institut imeni V.V.  
Kuybysheva (for Koperin).

KOPERIN, Fedor Ivanovich, prof.; FEDYSHIN, Nikolay Pavlovich,  
st. prepody NAUMOVA, I.A., red.

[Preparation of lumber for export] Podgotovka pilomaterialov  
na eksport. Arkhangel'sk, Severo-Zapadnoe knizhnoe izd-vo,  
1965. 122 p. (MIRA 18:10)

1. Arkhangelskiy lesotekhnicheskiy institut imeni V.V.  
Kuybysheva (for Fedyshin).

KOPERIN, Fedor Ivanovich, prof.; FILIMONOVA, D.S., red.; MELEKHOVA, L.S.,  
tekhn. red.

[Prevention of decay in wood] Zashchita drevesiny ot gneniiia.  
Arkhangel'sk, Arkhangel'skoe knizhnoe izd-vo, 1961. 190 p.  
(MIRA 15:4)

(Wood--Preservation)

KOPERIN, V.V.; GANTMAN, V.B.; NEPOMNYASHCHAYA, T.F., redaktor; STANNOVSKIY, A.P., inzhener, redaktor; SMOL'YAKOVA, M.V., tekhnicheskiy redaktor.

[A mechanic's handbook on the operation and repair of building industry equipment] Spravochnik mekhanika po eksploatatsii i remontu stroitel'nogo oborudovaniia. Moskva, Gos.izd-vo lit-ry po stroy. i arkhit., 1954. 240 p.  
(MLRA 8:5)  
(Building machinery)

BELYAYEV, Leonid Mikhaylovich; FRANTSUZOV, Yakov Leonovich;  
KOPERIN, V.V., inzh., nauchnyy red.; TABUNINA, M.A., red.  
"Izd-va; MUCHALINA, Z.S., tekhn. red.

[Assembly of hoisting and conveying machinery with continuous  
and intermittent action] Montazh podzemno-transportnykh mashin  
neprelyvnogo i preryvnogo deistviia. Moskva, Gosstroizdat,  
(MIRA 15:7)  
1962. 278 p.  
(Conveying machinery) (Hoisting machinery)

DEMAT, M.P.; IOSELOVSKIY, I.V.; KOPERIN, V.V.; NIKUL'SHIN, Yu.D.;  
TSUKERMAN, D.P.; KORELIN, D.S., nauchnyy red.; LYTKINA, Z.S.,  
red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Planning the organization and execution of erecting work;  
principal designs of the rigging of equipment] Proektirovaniye  
organizatsii i proizvodstva montazhnykh rabot; osnovnye re-  
sheniia takelazha oborudovaniia. Moskva, Gosstroizdat, 1962.  
182 p.

(Machinery---Erecting work)

KOPERIN, Vladislay Vladimirovich; YUSHKOV, Nikolay Ivanovich;  
NAUMOV, Vasilii Grigor'yevich; TUROVSKIY, Petr Borisovich  
[deceased]; KORELIN, D.S., red.

[Handbook on the assembly and installation of the technological equipment in enterprises of the woodpulp and paper industry] Spravochnik po montazhu tekhnologicheskogo oborudovaniia predpriatii tselliulozno-bumazhnoi promyshlennosti. Izd.2., perer. i dop. Moskva, Lesnaia promyshlennost', 1964. 758 p. (MIRA 17:9)

KOPERIN, Vladislav Vladimirovich; KORELIN, Dmitriy Sergeevich;  
CHUMADIN, I.G., nauchn. red.; TABUNINA, M.A., red.

[Assembling equipment for enterprises of the building  
materials industry] Montazh oborudovaniia predpriiatii  
promyshlennosti stroitel'nykh materialov. Moskva, Stroi-  
izdat, 1964. 330 p. (MIRA 17:9)

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[Manual on the assembly of technological equipment in the enterprises of the pulp and paper industry] Spravochnik po montazhu tekhnologicheskogo oborudovaniya predpriatii tselliuloznobumazhnoi promyshlennosti. Moskva, Goslesbumizdat, 1960. 259 p. (MIRA 14:4)

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M.I., red.izd-va; RODIONOVA, V.M., tekhn. red.

[Installation of metal cutting and forging press equipment]  
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vaniia. Moskva, Gosstroizdat, 1963. 259 p.  
(MIRA 17:2)

CHUMADIN, I.T., inzh.; KOPERIN, V.V., nauchn. red.; SKVORTSOVA, I.P.,  
red. izd-va; DAUMOVA, G.D., tekhn. red.

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stroit. materialam, 1961. 150 p.  
(MIRA 14:11)  
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YEFREMENKO, V.P., inzh.; KOPERIN, V.V., inzh.; TUSHNYAKOV, M.D., inzh.,  
nauchnyy red.; TABUNINA, M.A., red.izd-va; NAUMOVA, G.D.,  
tekhn.red.

[Operating mobile air-compressor stations] Rabota na peredvizhnykh  
vozdushno-kompressornykh stantsiiakh. Moskva, Gos.izd-vo lit-ry  
po stroit., arkhit. i stroit.materialam, 1960. 260 p.

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(Air compressors)

KOPERIN, Vladislav Vladimirovich; VASIL'YEV, Vladimir Konstantinovich;  
KORELIN, D.S., nauchnyy red.; VDOVENKO, Z.I., red. izd-va;  
MOLCHANINA, Z.S., tekhn. red.

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KOPERIN, V.V., nauchn. red.; ZHURAVLEV, B.A., red.izd-va;  
KASIMOV, D.Ya., tekhn. red.

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the meat and milk industry, refrigeration equipment] Montazh  
tekhnologicheskogo oborudovaniia pishchevykh predpriiatii;  
miaso-molochnaia promyshlennost', kholodil'nye ustavki.  
Moskva, Gosstroizdat, 1963. 315 p. (MIRA 16:8)  
(Food industry--Equipment and supplies)

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Montazh tekhnologicheskogo oborudovaniia khimicheskikh zavodov. Moskva, Stroizdat, 1964. 619 p.  
(MIRA 17:11)

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KOPERIN, V.V., inzh., nauchnyy red.; TABUNINA, M.A., red.izd-va;  
RUDAKOVA, N.I., tekhn.red.

[Assembly of compressors] Montazh kompressornykh ustavovok.  
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(Compressors)

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24 no. 9:22-26 S '62. (MIRA 15:9)  
(Finland--Corrosion and anticorrosives)

AKULOV, Aleksandr Ivanovich, kand. tekhn. nauk; SOKOL, Isaak Abramovich, inzh.; KOPERIN, V.V., inzh., nauchnyy red.; PEREVALYUK, M.V., red.izd-va; NAUMOVA, G.D., tekhn. red.

[Welding nonferrous metal pipelines] Svarka truboprovodov iz tsvetnykh metallov. Moskva, Gosstroizdat, 1962. 140 p.  
(MIRA 16:3)

(Pipelines--Welding) (Nonferrous metals--Welding)

KOPERINE, A. V.

\*Reduction de certains amides et amides substitués. Mémoire I.\* Gavrilov, N. I.; Koperine, A. V. (p. 1394)

SO: Journal of General Chemistry  
(Zhurnal Obozhevi Khimii) 1939, Volume 9, #15

CA

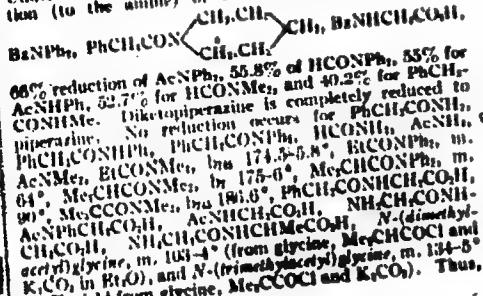
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Reduction of certain amides and substituted amides.  
II. Kinetics and the mechanism of reaction of electrolytic reduction of certain amides. A. V. Kargin, and M. M. Klyuchareva. *J. Gen. Chem. (U. S. S. R.)* 11, 51-62 (1941); cf. *C. A.* 34, 1610. In this article the authors report the influence of cathode material, e. g., nature of the solvent and several other factors in electrolytic reduction of benzamide and hippuric acid. The work was done in a sealed porous cell, using 20%  $H_2SO_4$  anolyte,  $H_2SO_4$  with Pb cathode ( $4 \times 0.8 \text{ cm}^2$ ) at 9 amp, gave 84.8% benzylamine and 10.9% benzyl alcohol. A Cd cathode gave identical results with the Pb cathode. In comparing reduction rates with different c. ds. (total current of 9 amp. and 1.15 amp.) it was found that rate of reduction, calc'd. as  $K$  for first-order reactions, increases only 2.4 times upon 8-fold increase of c. d., while the current efficiency is cut almost in half. Comparison of the consts. for benzamide, hippuric acid and *N,N*-diphenylbenzamide gives a ratio: 1.30:1.00:0.228. G. M. K.

The electroreduction of the peptide group in cyclic and open-chain compounds. The reduction of certain amides and substituted amides. N. I. Gavrilov, A. V. Kopteva, and M. M. Klyuchareva (Gorky Inst. Exptl. Med.), Bull. soc. chim., 12, 773-9 (1953).—The behavior of amides in electroreduction is studied to determine whether cyclic and open-chain peptides can be distinguished in proteins. The electrodes are pure Pt, the anode soln. is 20% H<sub>2</sub>SO<sub>4</sub>, the cathode soln. is 40 cc. H<sub>2</sub>O, 30 cc. EtOH, 5 cc. H<sub>2</sub>SO<sub>4</sub>, 0.01 M amide. Current d. is 0.187 amp./ml. cm. at 40°. Under these conditions, there is generally 100% reduction (to the amine) of BaNH<sub>2</sub>, BaNHMe, BaNMe<sub>2</sub>,

aromatic amides are reduced only when Ph is in direct combination with the C of CO. Piperazine has the same effect as Ph. Fatty acid amides are not reduced unless Me or Ph replaces the H in HCONH<sub>2</sub> or AcNH<sub>2</sub>. The case of reduction of hippuric acid is an exception. The greater ease of reduction of aromatic compds. is probably due to their greater ease of hydrolysis and the solv. of the compds. produced.

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## ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

6000 STUDY SHEET 101000 MAP DRY 300

SEARCHED

SERIALIZED

INDEXED

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INDEXED

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SERIALIZED

INDEXED

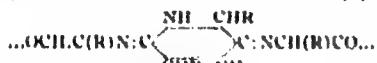
FILED

**Structure of the protein macromolecule. I. Amount of diketopiperazine in the molecule of certain proteins.**  
 N. I. Gavrilov and A. V. Kuperman (Moscow State Univ.),  
*J. Gen. Chem. (U.S.S.R.)* 17, 355 (1947) (in Russian).—Quant. detn. of the diketopiperazine (DKP) present in unchanged native proteins was achieved by electrolytic reduction on a Hg cathode in acid soln. (10% H<sub>2</sub>SO<sub>4</sub> or HCl) at 25–30°. Under these conditions, no peptides will suffer cyclization and no DKP or polyptides will undergo hydrolysis; no peptides are reduced, only DKP. The NH<sub>2</sub> and NH groups are detd. in the protein and in the hydrolyzed (20% H<sub>2</sub>SO<sub>4</sub>, 20 hrs.) protein before and after electrolyzed by the Sorensen and by the van Slyke methods (*C.A.* 44, 2772). The difference of the amino + imino N content in the hydrolyzed reduced and in the hydrolyzed original protein gives the amt. of the DKP N originally present; the van Slyke method gives this amt. directly; the Sorensen detn. must be multiplied by 2, since one N of piperazine is titratable by this method. The percentage of DKP N (relative to total N) found was: in gelatin (I) 27.6; plain-fermented gelatin (II) 26.2; serum albumin (III) 21.0; sturine sulfate (IV) 8.4%. For each DKP there are in I 4 monocyclic peptides, in III 5, in IV 6. Electroreduction liberates free amino groups in the amt. (Sorensen, van Slyke): I 5.2, 0.8; II 9.0, 13.0; III 13.8, 14.0; IV 5.8, 0.2. These ams. remained unchanged after preliminary treatment with 10% H<sub>2</sub>SO<sub>4</sub> at 25–30°, 0 hrs.; this indicates the absence of hydrolysis under the conditions of the expt. Appearance of free NH<sub>2</sub> after reduction is evidently due to rupture of the bond between the keto C of DKP and the end N of peptides; hence, the original bond between DKP and the peptides is

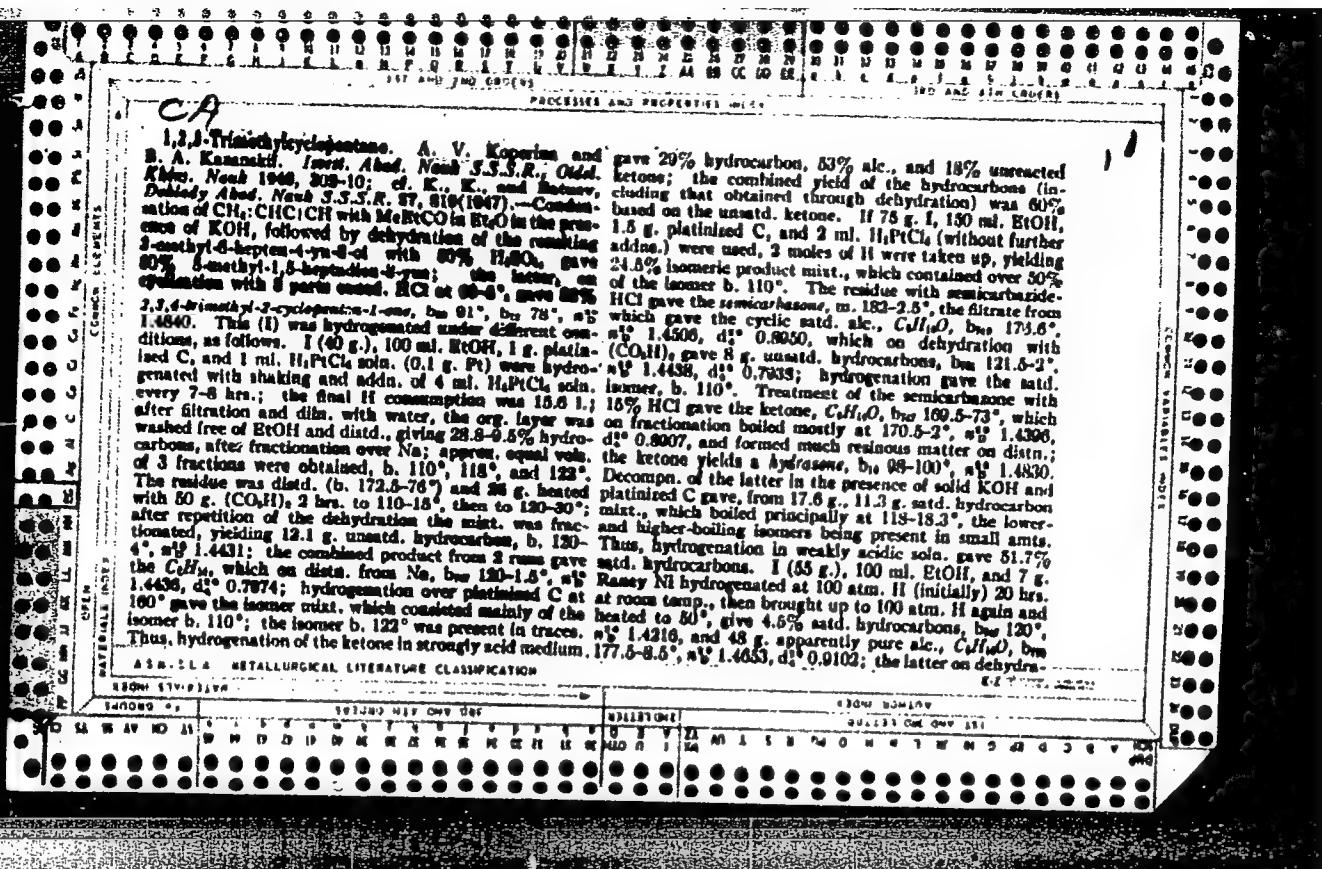
**1.2. AND PROPERTIES OF DKP**

It is possible that in I only one carbonyl C is bound with a tetrapeptide or that one C is bound with a tripeptide and the other with a simple amino acid. Similarly, in III only one C may be bound with a pentapeptide or one C with a tripeptide and the other with a dipeptide, etc. The electrolyzed was accomplished with a Hg cathode area of 155 sq. cm., c.d. 0.044 amp./sq. cm., with an amt. of protein such as not to exceed 0.7 hrs. for total reduction. Preliminary expts with pure piperazine (0.7% soln.) demonstrated its perfect stability on heating with 20% and 40% H<sub>2</sub>SO<sub>4</sub> for 20 and 48 hrs. and the exact Sorensen titratability of one N. Variation of the current intensity (2, 4, and 8 amps. on 155 sq. cm.) had no effect on the electroreduction. Distr. of the Hg between runs is obligatory; with imperfectly purified Hg the reduction is not complete. A temp. higher than 35° may cause hydrolysis of the protein; a temp. lower than 25° is insufficient for the reduction. Detn. of piperazine in reduced I was attempted by way of electrophoresis; however, only about half of the total amt. of piperazine is transferred to the cathode in 90 hrs.; CHCl<sub>3</sub> extr. piperazine successfully. III had been prep'd. from 250 ml. human blood; after centrifugation, 125 ml. serum were twice pfd. with Me<sub>2</sub>CO, dissolved in water, centrifuged and adjusted to 30 ml.; portions of 1.5–2.0 ml. of the soln. (contg. 0.025 g. N = 0.15 g. protein per 5 ml.) were used for electrolyzed. IV had been prep'd. from the milt of sturgeon by the picric-acetone method as sulfate; 0.3 g. was used for each reduction.

N. Thom







tion by  $(CO_2H)_2$  gave 78% unstd. hydrocarbons mixt.  
ben 130-3°, which on hydrogenation over platinum C  
gave the 3 isomeric std. hydrocarbons, with that be-  
110° predominating; the total yield of std. hydrocarbons  
then, on reduction in neutral medium was 88.4%. Re-  
fractionation of the combined products from all of the  
above runs through a 37-phase column gave the pure in-  
dividual isomers as follows:  $p,p,p$ -trimethylpentane,  
ben 110-14.3°,  $n$  1.4160,  $d_4^{25}$  0.7840;  
 $p,p,p$ -trimethylhexane, ben 118-18.3°,  $n$  1.4084,  $d_4^{25}$  0.7696;  
 $p,p,p$ -trimethylheptane, ben 126.0-31.1°,  $n$  1.4250,  
 $d_4^{25}$  0.7768. The specific points were 57.8, 81.2, and 47.0.  
G. M. Kosolapoff

KOPERINA, A. V.

PA 7/49T11

UR/Chemistry - Synthesis  
of 1, 2, 3-trimethylcyclopentane, 1,2,3-trimethyl

Report on 1, 2, 3-trimethylcyclopentane," A. V. Koperina, B. A. Berezin, Inst of Org Chem, Acad Sci USSR, 9 pp

In Akad Nauk SSSR, Otdel Khim Nauk" No 3

Describe synthesis of 1, 2, 3-trimethylcyclopentane, starting from 3-methylheptene-6-in-ol by dehydration to diene, and cyclisation of the latter into trimethylcyclopentane by I. N. Kharov's method. Describe division of 1, 2, 3-trimethylcyclopentane into stereoisomers.

UR/Chemistry - Synthesis (Contd) May/June 48

Submitted 19 Sep 1947.

KOPERINA, A. V.

B. A. Kazanskii, A. V. Koperina and M. I. Batnev, Hydration of cyclopentane hydrocarbons with splitting of the cycle. XI. The hydration of stereoisomeric 1,2,3-trimethylcyclopentanes. P. 503.

During hydration of stereoisomeric 1,2,3-trimethylcyclopentanes, there is observed a transition of each one of them into the mixture of stereoisomers (always with a pre-dominance of 1<sup>c</sup>, 2<sup>t</sup>, 3<sup>c</sup>-trimethylcyclopentane) and a partial splitting of the five numbered cycle with formation of 2,3,4-trimethylpentane.

Inst. of Organic Chemistry of the  
Acad. of Sci. USSR  
December 25, 1947

SO: Bulletin of the U.S.S.R. Academy of Sciences (Chemistry Series)  
Izvestia Akad. Nauk, S.S.S.R., No. 5, 1948.

USER/Chemistry - Cyclopentane, Derivatives      Sep 48  
Chemistry - Bicyclo-(1,2,2,)-Heptane

"Structure of Bicyclo-(1,2,2)-Heptane," Acad B. A.  
Kazanskiy, A. V. Koperina, M. I. Batuyev, 4 pp

"Dok Ak Nauk SSSR" Vol LXII, No 3

Discussion of experimental data on conversions of  
bicyclo-(1,2,2)-heptane, largely obtained in author's  
laboratory, points out that it should be considered  
a cyclopentane derivative and not a cyclohexane  
with a methylene bridge connecting carbons 1 and 4.  
Submitted 6 Aug 48.

3640713

26/brown

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Bazulin, P. A., Ukholin, S. A., Bulanova, T. F., Koperina, A. V. CA: 44-1331/e  
Plate, A. F. and Kazanskii, B. A.  
Izvest. Akad. Nauk SSSR, Otdel Khim. Nauk 1949, 481-6  
Optical investigation of hydrocarbons. V. Raman spectra of some napthenes  
and nonanes.

CA

Oxidation of 3-methylcyclohexanone. B. A. Karanskii, A. V. Koperina, and O. A. Zemskaya (Lomonosov State Univ., Moscow). Zhur. Obshch. Khim. (U. S. S. R.) 30, 1212-17 (1960).—Oxidation of 100 g. 3-methylcyclohexanone with 252 g. HNO<sub>3</sub> (d. 1.37), 80 ml. H<sub>2</sub>O, and 0.2 g. NH<sub>4</sub> metavanadate by slow addn. of the ketone to the soln. at 0°, 90°, and fractional cryst. gave 61% total acids, a small amt. of (C<sub>8</sub>H<sub>11</sub>)<sub>2</sub>, and 2 isomers methyldipenoate. The latter diast. in 75-g. aliquots with 0.01 mole Ba(OH)<sub>2</sub> gave 51% crude ketones, b. 130-45°, which, treated with McMigt (slight excess) and diast. over (C<sub>6</sub>H<sub>6</sub>) or iodine, gave 51% mixed olefins, yielding on careful fractionation in 1.4:1.0 ratio 2,4-dimethylcyclohexene, b.p. 92.7°, d<sub>4</sub><sup>20</sup> 0.7715, n<sub>D</sub><sup>20</sup> 1.4287 (readily hydrogenated over Pt-C at 150° to the satd. derivative, b.p. 100.0°, n<sub>D</sub><sup>20</sup> 1.4000, d<sub>4</sub><sup>20</sup> 0.7452), and 1,2-dimethylcyclohexene, b.p. 104-4.5°, n<sub>D</sub><sup>20</sup> 1.4444, d<sub>4</sub><sup>20</sup> 0.7954 (similarly hydrogenated to a 10:40 mix. of *trans*-*tr*-isomers of 1,2-dimethylcyclohexene, b.p. 93.5-6.0°, n<sub>D</sub><sup>20</sup> 1.4093, d<sub>4</sub><sup>20</sup> 0.7600). A similar reaction with McMigt gave, upon dehydrative distn. over sulfide, largely 1-methyl-3-propylcyclohexene, b.p. 133-3.8°, n<sub>D</sub><sup>20</sup> 1.4405, d<sub>4</sub><sup>20</sup> 0.7024, and a small amt. of the 1,2-isomer, b.p. 148.5°, n<sub>D</sub><sup>20</sup> 1.4401, d<sub>4</sub><sup>20</sup> 0.8002; hydrogenation of the former gave 1-methyl-3-propylcyclohexane, b.p. 147-7.8°, n<sub>D</sub><sup>20</sup> 1.4254, d<sub>4</sub><sup>20</sup> 0.7715, b.p. 148.2-8.4°. G. M. Kosolapoff

CA

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The oximes of 4-methylcyclohexanone. The synthesis  
of 1-methyl-3-propylcyclopentane. B. A. Katsnikov, A. V.  
Kopernik, and O. A. Zemskaya. *J. Gen. Chem. U.S.S.R.*  
20, 1257-62 (1950) (Engl. translation).—See C.A. 45, 1525c.  
R. M. S.

The

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**1,3-Dimethylcyclopentane.** A. A. Karpov, I. M. Narutova, and B. A. Karavskii (N. V. Tomsk State Univ., Tomsk), *Zhur. Obshch. Khim.* (J. Gen. Chem.) **20**, 1408-1503 (1950).—*2-Methyl-5-hexen-3-yn-2-ol*,  $\eta_2^{\text{D}} 0.97$ , dehydrated with 50%  $\text{HgSO}_4$  at 50-60°, gave 68.7% *3-methyl-1,5-hexadien-3-yne*,  $\eta_2^{\text{D}} 15.75$ ,  $n_2^{\text{D}} 1.4930$ . Hydrogenation by heating with  $\text{HgSO}_4$  in 90%  $\text{MeOH}$  with  $\text{HgSO}_4$  gave a mixt. of  $\text{CH}_2(\text{CMe})\text{CH}_2\text{CH}_2\text{CH}_2$  and *Me3Alkones*,  $\eta_2^{\text{D}} 0.9-1.0$ , which was cyclized by  $\text{HgPO}_4$  (d. 1.73), yielding 47.1% *2,4-dimethyl-2-cyclopenten-1-one*,  $\eta_2^{\text{D}} 71.37$ ,  $n_2^{\text{D}} 1.4670$ . Hydrogenation in  $\text{EtOH}$  with Pt-C and in the presence of a little  $\text{HgCl}_2$  gave rapid addn. of 2.1 moles II and vchlyd, after fractionation, 21% *hydrocarbon*,  $\text{C}_{11}\text{H}_{18}$ ,  $\eta_2^{\text{D}} 10.57$ ,  $n_2^{\text{D}}$  1.4004,  $d_2^{\text{D}} 0.7457$ , and 60% *2,4-dimethylcyclopentanediol*,  $\eta_2^{\text{D}} 159.01$ ,  $n_2^{\text{D}} 1.4418$ ,  $d_2^{\text{D}} 0.8902$ . Hydrogenation with Raney Ni in  $\text{EtOH}$  at 100 atm. H at 85° utilized 2 moles II and gave 45% of the *latter alc.* only,  $\eta_2^{\text{D}} 155.7$ ,  $n_2^{\text{D}} 1.4473$ . Dehydration of the alc. with  $(\text{CO}_2\text{H})_2$  at 115° gave 78-81% *unsatd. hydrocarbon*, which had the same constns.,  $\eta_2^{\text{D}} 92.7$ , 2.8%,  $n_2^{\text{D}} 1.4288$ ,  $d_2^{\text{D}} 0.7711$ , regardless of the source of the alc. This *2,4-dimethylcyclopentene* on hydrogenation over Pt-C in  $\text{EtOH}$  took up 1 mole II and gave a *1,3-dimethylcyclopentane*,  $\eta_2^{\text{D}} 40.5$ ,  $n_2^{\text{D}} 1.4005$ ,  $d_2^{\text{D}} 0.7454$ , also formed by vapor-phase hydrogenation over Pt-C at 160°; its properties checked those of the hydrocarbon product of hydrogenation of the ketone (above). The possibility of stereo isomers in this prepn. has not been cleared up. (G. M. K.)

KOPERINA, A. V.

USSR/ Chemistry Spectral analysis

Card : 1/1 Pub. 40 - 20/27

Authors : Bazulin, P. A., Koperina, A. V., Liberman, A. L., Ovodova, V. A., and Kazanskiy, B. A.

Title : Optical method of studying hydrocarbons. Part 7.- Combined diffusion spectra of certain naphthalenes

Periodical : Izv. AN SSSR. Otd. khim. nauk 4, 709 - 715, July - August 1954

Abstract : Combined diffusion spectra of seven cyclopentane and cyclohexane hydrocarbons, were investigated and the intensities of the spectral lines in the maximum state were determined photometrically. The spatial orientation of side chains in naphthalenes and stereoisomers, was determined on the basis of spectroscopic data. Tables, showing the frequency and intensity of spectral lines of the investigated naphthalenes, are included. Ten references: 6 USSR and 2 USA (1941 - 1951). Tables; diagrams.

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Submitted : August 30, 1953

PA 59/49T8

KOPERINA, V. V.

USSR/Geology

Mar/Apr '49

Coal  
Lithology

"Lithology and Genesis of Coal-Bearing Layers  
of Karagay Deposits in the Kuznetsk Basin,"  
V. V. Koperina, 18 pp

"Iz Ak Nauk SSSR, Ser Geol" No 2

Makes some conclusions on conditions necessary  
for formation of coal-bearing layers of Karagay  
deposits based on detailed studies of rocks in  
coal-bearing strata, their mechanical, mineral-  
ogical and chemical properties, plant remains and  
fauna, and a thorough analysis of stratification.

59/49T8

KOPERINA, V. V.

"Lithological Composition and Formation Conditions of the  
Middle Part of Kol'chugino Stratum in the Kuznets Basin." Sub  
10 Jan 51, Moscow Geological Prospecting Inst.

Dissertations presented for science and engineering degrees in  
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

KOPERINA, V. V.

Mineralogy, Determinative

Accuracy of mineralogical analysis. Dokl. AN SRR 85, no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

USSR/Geophysics - Coal

Geology

KOPERINA, V. V.

21 Feb 53

"New Data on the Stratigraphy and Lithology of the Upper Part of the Coal-Bearing

Deposits of the Carboniferous in the Karagand~~is~~<sup>ia</sup> Basin," V. V. Koperina

DAN

"Dokl Akad Nauk SSSR," Vol ~~XXXVIII~~, No 6, pp 1035-1038

According to M. O. Borsuk, the upper part of the coal-bearing strata is florally similar to that of the lower-lying karagand~~is~~<sup>ia</sup> formation, and the lowest boundary of the Westphalian layer is the middle of the karagand~~is~~<sup>ia</sup> layer. Presented by

D. V. Nalivkin Acad.

256 T70

KOPERINA, V.V.

Lithology, stratigraphy, and coal measures of the upper part of the  
Carboniferous coal-bearing deposits in Karaganda Basin. Trudy Lab.  
geol.ugl. no.2:252-270 '54. (MLRA 8:7)  
(Karaganda Basin--Coal geology)  
(Karaganda Basin--Geology, Stratigraphic)

KOPERINA, V.V.

Composition and formation of the supra-Karaganda, Dolinskiy,  
supra-Dolinskiy, and Shakhanskiy series of the Karaganda  
Basin. Trudy Lab.geol.ugl. no.4:5-102 '56. (MLRA 9:10)

(Karaganda Basin--Geology, Stratigraphic)  
(Karaganda Basin--Coal geology)

ISHINA, T.A.; KOPERINA, V.V.; HENGARTEN, N.V.; SLATVINSKAYA, Ye.A.

Using the facies analytical method in geological prospecting operations. Trudy Lab.geol.ugl. no.5:153-160 '56. (MLRA 9:8)

1. Laboratoriya geologii ugliya AN SSSR.  
(Coal geology) (Prospecting)

RENNINA, V.V.

AUTHOR: Zhemchuzhnikov, Yu.A.

11-1-1/29

TITLE: Similarities and Differences of Features Between Facies,  
Facies-Cyclic and Facies-Geotectonic Methods of Study-  
ing Coal-Bearing Strata (Skhodstvo i razlichiya mezhdu  
fatsial'nym, fatsial'no-tsiklicheskim i fatsial'no-geo-  
tektonicheskim metodami izucheniya uglenosnykh tolshch)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,  
# 1, pp 3-11 (USSR)

ABSTRACT:  
At the second Coal Geological Conference held in March 1955, the lectures of G.A. Ivanov, T.A. Ishina, V.V. Ko-  
perina, N.V. Rengarten and others dealt with different methods of examining coal-bearing strata. G.A. Ivanov and the author belong to a group of geologists who regard periodicity as one of the most important features of coal-bearing strata. The author elaborates on the similarities and differences existing between his views and those of G.A. Ivanov. Ivanov proposes to conduct the observations first of the facies, and afterwards of geotectonics, and therefore his method is called the facial-geotectonic method. However, his method starts with the differentiation according to granulometric differences, whereby coal and limestone are regarded as the

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and *Facies-Geotectonic* Methods of Studying Coal Bearing Strata

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rocks with the finest granules. G.A. Ivanov emphasizes that his proposed facial-geotectonic method based on granulometric examinations and on the development of marked facies can chiefly be used by geologists prospecting for coal. G.A. Ivanov sees the essential difference between his method and the facial-cyclical analysis in the fact, that his method does not require the difficult separation and determination of numerous types of lithological rocks and their facial classification. He proposes to determine facies by cycles, and not cycles by facies, believing this method to be less difficult and more accurate. The author draws attention to the fact that not separate facies are determined by the Ivanov method, but groups of facies which are in contact with marked facies. The facial-cyclical method was successfully applied in the Kuznetsk and many other coal basins. Summarizing it may be stated that the facial geotectonic analysis of G.A. Ivanov has many similarities with the facial-cyclical method, in contrast to the facial analysis which disregards the rules of periodicity. In the lectures of T.A. Ishina, V.V. Koperina and others it is stated that facial

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analysis represents the study of primary or genetic properties of rocks originating during the process of sedimentation and subsequent diagenetic transformation. Based on the total of these indications, conclusions are drawn pertaining to the conditions under which sedimentation took place and the facial composition of the coal-bearing strata is established. The author disagrees with this view, in as much as it does not consider the importance of sequence or alternation of rocks for the formation of facies, their paragenetic composition. Summarizing it may be stated that lithologists, using facial analysis of the improved stage, i.e. as a facies-cyclical method, will obtain better results and will further improve the method itself. Lithology of coal-bearing strata requires further studies and exchanges of experiences on the matter. At the present time there are no differences existing between the methods of approach which cannot be overcome as long as they are not throttled by denying the geotectonic factor of alternation of rocks or by disregarding the importance of studying the individual lithologic characteristics of rocks or by ignoring the importance of establishing the

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different facies by all available methods.  
There are 18 Russian references.

AVAILABLE: Library of Congress

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*KOPERINA, V.V.*

AUTHOR: Koperina, V.V.

TITLE: Facies and Types of Accumulation of Coal in Coal-Bearing Deposits of the Donbass (Fatsii i tipy uglenakopleniya v ugle-nosnykh otlozheniyakh Donbassa)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, # 1, pp 12-25 (USSR)

ABSTRACT: The article is a review of the facial composition of coal-bearing strata of the Donbass. It is shown that the alternation of facies may not be explained by fluctuations of movements, but by changing the relation existing between the speed of submersion and accumulation of deposits. Two types of accumulation of coal have been established at the Donbass: accumulation of coal on shallow coastal areas, and accumulation of coal at deltas with shifting river mouths. Facial analysis clarified the question of tectonic movements during the period of accumulation and supported the assumption that changes of facies were effected solely by the submersion of the Donbass area, and not by fluctuating movements. The present studies are based on research conducted by several geologists in 1948, and on core drilling operations carried out by the author in 1955 of the C<sub>1</sub> to C<sub>5</sub>

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layers of the Lower Carboniferous strata. The author distinguishes between 4 alternating types of rocks pertaining to the facies formed at: 1. Interspersion and ledges. 2. Lagoons and bays. 3. Shallow coastal waters. 4. Swamps. The author refers to various factors affecting the formation of deposits under different tectonic conditions. The type of coal deposits observed at the Lower Carboniferous period of the Donbass may be classified as a coal formation of a shielded shallow coastal area, for which type the following symptoms are characteristic: 1. The facial composition of the coal-bearing strata is uniform. 2. Underlying swampy facies are covered by facies of shallow waters and lagoons. 3. Scattered limestone formations of limited dimensions with characteristics of deposits of zones of shallow sea waters. 4. Considerable thickness of coal-bearing strata and high content of coal. 5. Rhythm in the structure of the coal-bearing strata is clearly discernable, i.e. frequent recurring successions of genetic facies. 6. Coal deposits are relatively thin and are wide spread. 7. The mineral content of the coal is low. 8. The coal layers contain considerable quantities of cutinized and fusainized components. Citing

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the studies of Z.V. Timofeyeva, Yu.A. Zhemchuzhnikov, I.V. Samoylov and D.V. Nalivkin, the author gives a detailed lithologic-facial description of the various Carboniferous layers as to their thickness, location, genetics, etc. A.Z. Shirokov gives a comprehensive account on the correlation of coal-bearing properties and the occurrence of sandstone formations of C<sub>2</sub><sup>6</sup> layers, where, as in C<sub>2</sub><sup>7</sup>, the coal contents are associated with delta facies and the coal contents decrease with diminishing delta sediments to a greater degree than at the C<sub>2</sub><sup>5</sup> and C<sub>2</sub><sup>6</sup> layers. Accumulation of coal found in C<sub>2</sub><sup>5</sup>, C<sub>2</sub><sup>6</sup>, and C<sub>2</sub><sup>7</sup> layers have characteristic properties and may be called typical examples of coal formations in delta areas with shifting river mouths. The following are the basic features of this type: 1. Delta facies are widely found in coal-bearing strata, which consist chiefly of thick layers of sandstone. 2. Frequently, the composition of the facies is manifold: besides delta facies, sea-coastal, lagoon, lake, swamp and other facies are found in coal-bearing strata. 3. Coal layers are deposited on clay formations. 4. The rhythm of the structure of the coal-bearing strata is clearly recognizable. 5. The coal-bearing strata is very thick and

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contains numerous coal seams. 6. Coal seams are generally thin when spread over a large area. 7. Coal deposits have relative low ash contents. A review of facial composition of rocks forming coal-bearing strata of the Donbass revealed two types of accumulation of coal, which are characterized by the probability of high concentrations, and which are associated with certain facial conditions, namely: 1. Accumulation of coal in flat coastal areas of the sea, protected by ledges; 2. Accumulation of coal on delta areas with shifting river mouths.

There are 20 Russian references.

ASSOCIATION: Laboratory of Coal Geology of the USSR Academy of Sciences, Leningrad (Laboratoriya geologii ugliya AN SSSR, Leningrad)

SUBMITTED: January 16, 1957.

AVAILABLE: Library of Congress

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RADCHENKO, O.A.; KOPERINA, V.V.

Use of thermal analysis in studying dispersed organic matter in rocks.  
Dokl. AN SSSR 135 no.3:713-716 N '60. (MIRA 13:12)

1. Laboratoriya geologii uglya Akademii nauk SSSR. Predstavleno  
akad. N.M. Strakhovym.  
(Rocks—Thermal properties) (Organic matter)

KOPERINA, V.V.

Facies of dry plains in the Kuznetsk series of the Kuznetsk  
Basin. Dokl. Ak SSSR 135 no.4:951-953 '60. (MIRA 13:11)

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8

KOPERINA, V.V.; DVORETSKAYA, O.A.

Density and porosity of clay rocks. Trudy GIN no.115:115-123  
'65. (MIRA 18:12)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-8"

MIL'MAN, N.Ya. kand.med.nauk, KOPERKO, F.F.

A case of calcified echinococcus. Vest.rent. i rad. 33 no.4:78-79  
Jl-Ag '58 (MIRA 11:8)

1. Is rentgenotsentra (zav. L.Ye. Kishinevskiy) Respublikanskoy klinicheskoy bol'nitsy (glavnyy vrach N.A. Testemitsanu), Kishinev.

(KIDNEY DISEASES, case reports  
calcified echinococcosis (Rus))  
(ECHINOCOCOSIS, case reports  
calcified, of kidneys (Rus))

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824510012-

S/058/62/000/006/033/136  
A061/A101

AUTHORS: Turyanitsa, I. D., Chepur, D. V., Koperles, B. M.

TITLE: A photoelectric study of absorption, reflection, and dispersion of mercurous iodide specimens

PERIODICAL: Referativnyj zhurnal, Fizika, no. 6, 1962, 33, abstract 6V220  
("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. Fiz.-matem. n.", 1961,  
no. 4, 60) ✓

TEXT: The curves of absorption, reflection, and dispersion of mercurous iodide single crystals and polycrystalline films were measured at room temperature. The principal absorption maximum was situated in the ultraviolet, and the additional one ( $580 \text{ m}\mu$ ) was due to stoichiometric iodine excess. The reflection factor was  $\approx 10\%$  and  $> 20\%$  in the red and violet spectrum regions, respectively.

[Abstracter's note: Complete translation]

KOPERNICKY, A.; ~~NAVRATIL, J.~~

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periodicals: PRUMYSL POTRAVIN Vol. 9, no. 10. Oct. 1958

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(Supplement). p. 1.

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May 1959, Unclass.

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KOPERSAK G.D.

GASTEVA, S.O.: KREL'SHENYN, B.I.; LYAPIN, S.Ye.; SHIDLOVS'KA, M.M.;  
KOPERSAK, G.D., redaktor; MONZHENAN V.P., tekhnichniy  
redaktor

[Methods of teaching mathematics; a manual for teachers and students  
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red. S.I. Liapina. Pereklad s druhoho, vypravленого rosiis'koho  
vydannia Uchpedhizu, zatverdzhenho Ministerstvom osvity RRFSR.  
Kyiv, Derzh. uchbovo-pedagog. vyd.-vo "Radians'ka shkola," 1956.  
467 p.

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(Mathematics--Study and teaching)

KOPERSAK, G.D.

LOPOVOK, Lev Mikhaylovich; KOPERSAK, G.D., redaktor; MOZHAREN, V.F.,  
tekhnicheskiy redaktor

[Practices in teaching mathematics in secondary schools]  
Z dosvidu vykladannia matematyky v serednii shkoli. Kyiv,  
Derzh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1957.  
202 p. (MLRA 10:5)  
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KOSTARCHUK, Viktor Nikolayevich[Kostarchuk, V.M.]; KHATSET, Boris Isaakovich; KOPERSAK, G.D.[Kopersak, H.D.], red.; VOLKOVA, N.K., tekhn. red.

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